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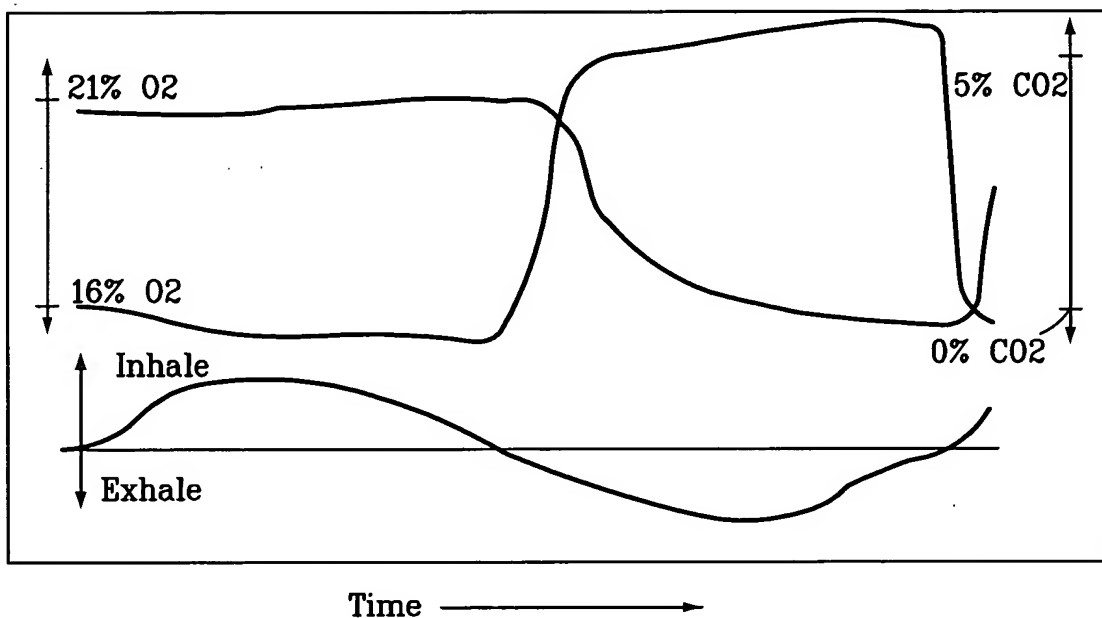
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FIG. 1



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FIG. 2

	Athletic Volunteer							
	Resting Condition							
		Clinical Measurement				Computed Using Invention		
			Water Saturated	R	Dry Equivalent	Difference	RET	RET-R
		Inspired	End Tidal		End Tidal			<i>error</i>
Run 1	Oxygen	159.6	103	0.67	109.79	49.81	0.71	0.04
	CO2	0	33		35.18	35.18		
Run 2	Oxygen	159.6	94	0.67	100.20	59.40	0.65	-0.02
	CO2	0	36		38.37	38.37		
Run 3	Oxygen	159.6	101	0.71	107.66	51.94	0.70	-0.01
	CO2	0	34		36.24	36.24		
Run 4	Oxygen	159.6	112	0.80	119.38	40.22	0.80	-0.00
	CO2	0	30		31.98	31.98		
				=			=	=
			Average	0.71		Average	0.71	-0.00

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FIG. 3

	Normal Man								
	Resting Condition								
	Clinical Measurement					Computed Using Invention			
			Water Saturated	R		Dry Equivalent	Difference	RET	RET-R
		Inspired	End Tidal			End Tidal			<i>error</i>
Run 1	Oxygen	159.6	112	0.94		119.38	40.22	0.93	-0.01
	CO2	0	35			37.31	37.31		
Run 2	Oxygen	159.6	105	0.81		111.92	47.68	0.85	0.04
	CO2	0	38			40.50	40.50		
Run 3	Oxygen	159.6	105	0.81		111.92	47.68	0.83	0.02
	CO2	0	37			39.44	39.44		
Run 4	Oxygen	159.6	103	0.76		109.79	49.81	0.81	0.05
	CO2	0	38			40.50	40.50		
Run 5	Oxygen	159.6	102	0.76		108.72	50.88	0.80	0.04
	CO2	0	38			40.50	40.50		
Run 6	Oxygen	159.6	106	0.88		112.99	46.61	0.85	-0.03
	CO2	0	37			39.44	39.44		
				=				=	=
			Average	0.83		Average	0.84		0.01

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FIG. 4

	Normal Man							
	2 Min after starting Exercise							
	Heart Rate 183							
	Work output 40 - 80 Watts							
		Clinical Measurement			Computed Using Invention			
			Water Saturated	R	Dry Equivalent	Difference	RET	RET-R
		Inspired	End Tidal		End Tidal			<i>error</i>
Run 1	Oxygen	159.6	101	0.84	107.66	51.94	0.86	0.02
	CO2	0	42		44.77	44.77		
Run 2	Oxygen	159.6	101	0.87	107.66	51.94	0.84	-0.03
	CO2	0	41		43.70	43.70		
Run 3	Oxygen	159.6	102	0.88	108.72	50.88	0.88	-0.00
	CO2	0	42		44.77	44.77		
Run 4	Oxygen	159.6	100	0.90	106.59	53.01	0.88	-0.02
	CO2	0	44		46.90	46.90		
Run 5	Oxygen	159.6	103	0.92	109.79	49.81	0.92	0.00
	CO2	0	43		45.83	45.83		
				=			=	=
			Average	0.88		Average	0.88	-0.00

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FIG. 5

	Normal Man								
	5 Min after starting Exercise								
	Heart Rate 195-207								
	Work output 100 - 140 Watts								
		Clinical Measurement				Computed Using Invention			
			Water Saturated	R		Dry Equivalent	Difference	RET	RET-R
		Inspired	End Tidal			End Tidal			<i>error</i>
Run 1	Oxygen	159.6	107	1.02		114.05	45.55	1.01	-0.01
	CO2	0	43			45.83	45.83		
Run 2	Oxygen	159.6	106	1.06		112.99	46.61	0.98	-0.08
	CO2	0	43			45.83	45.83		
Run 3	Oxygen	159.6	107	1.03		114.05	45.55	1.01	-0.02
	CO2	0	43			45.83	45.83		
Run 4	Oxygen	159.6	108	1.10		115.12	44.48	1.03	-0.07
	CO2	0	43			45.83	45.83		
Run 5	Oxygen	159.6	109	1.07		116.19	43.41	1.03	-0.04
	CO2	0	42			44.77	44.77		
				=				=	=
			Average	1.06			Average	1.01	-0.04

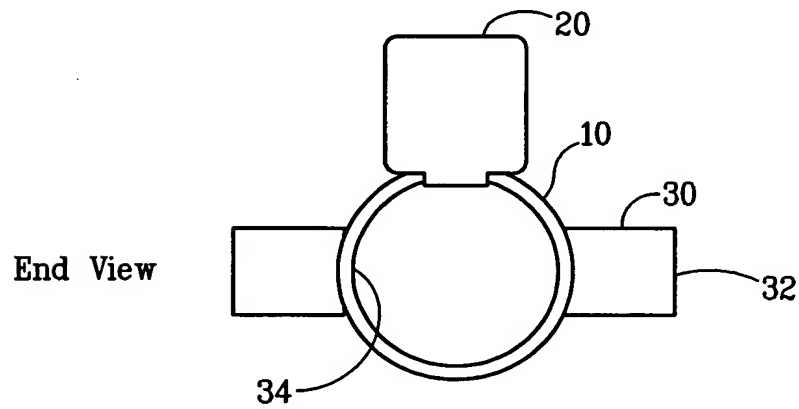
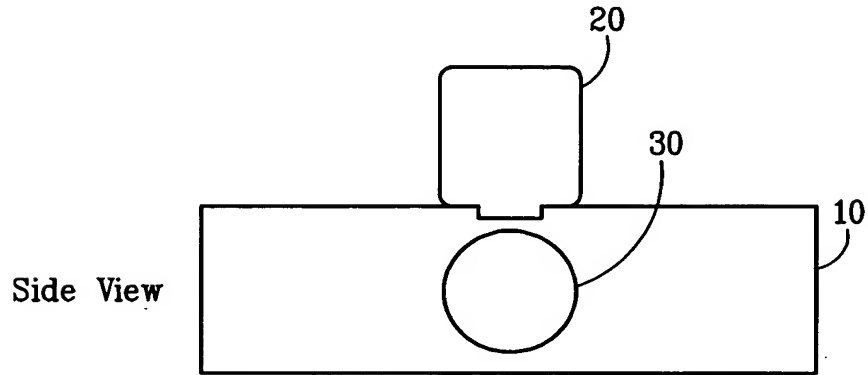
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FIG. 6

	Normal Man							
	9 Min after starting Exercise							
	Heart Rate 213-225							
	Work output 180 - 200 Watts							
		Clinical Measurement				Computed Using Invention		
			Water Saturated	R	Dry Equivalent	Difference	RET	RET-R
		Inspired	End Tidal		End Tidal			<i>error</i>
Run 1	Oxygen	159.6	112	1.18	119.38	40.22	1.11	-0.07
	CO2	0	42		44.77	44.77		
Run 2	Oxygen	159.6	112	1.21	119.38	40.22	1.11	-0.10
	CO2	0	42		44.77	44.77		
Run 3	Oxygen	159.6	115	1.28	122.58	37.02	1.15	-0.13
	CO2	0	40		42.64	42.64		
Run 4	Oxygen	159.6	119	1.34	126.84	32.76	1.20	-0.14
	CO2	0	37		39.44	39.44		
Run 5	Oxygen	159.6	118	1.36	125.78	33.82	1.17	-0.19
	CO2	0	37		39.44	39.44		
				=			=	=
			Average	1.27		Average	1.15	-0.12

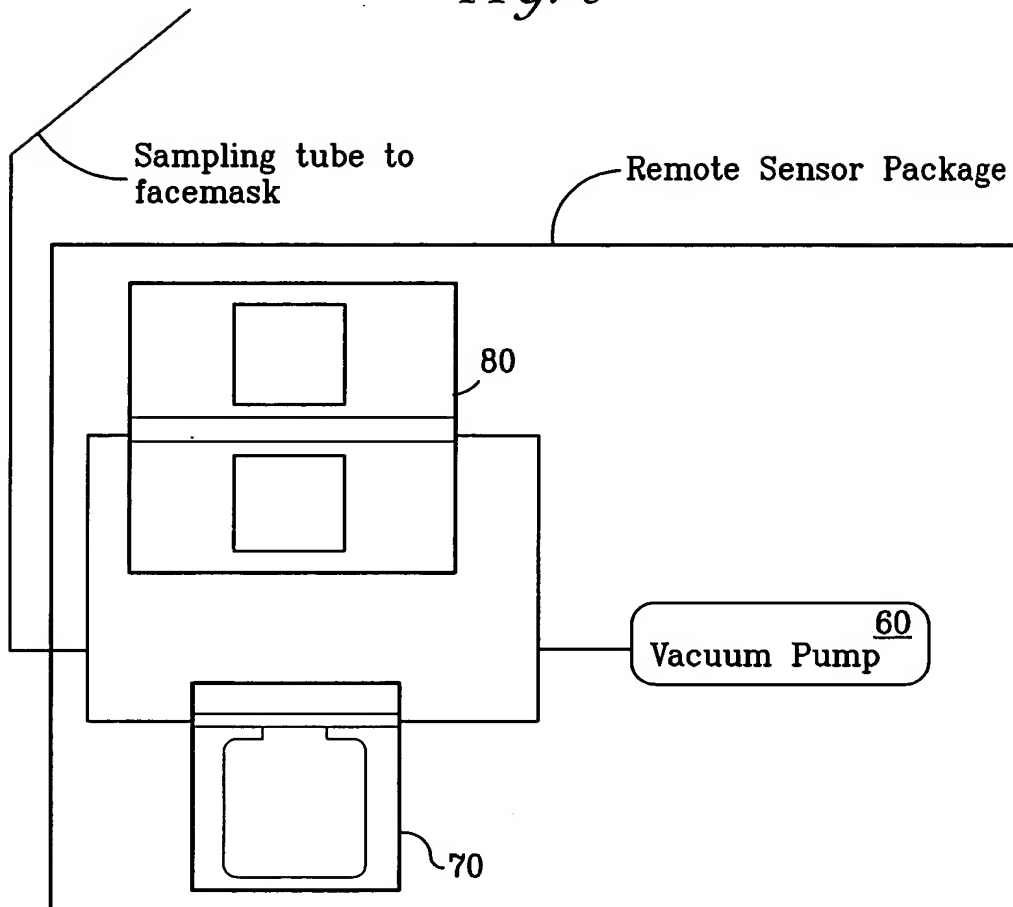
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FIG. 7



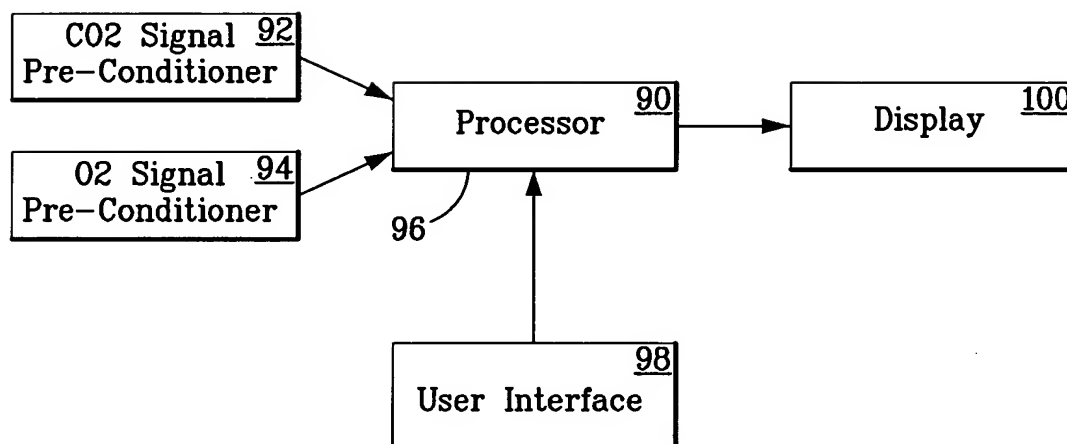
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FIG. 8



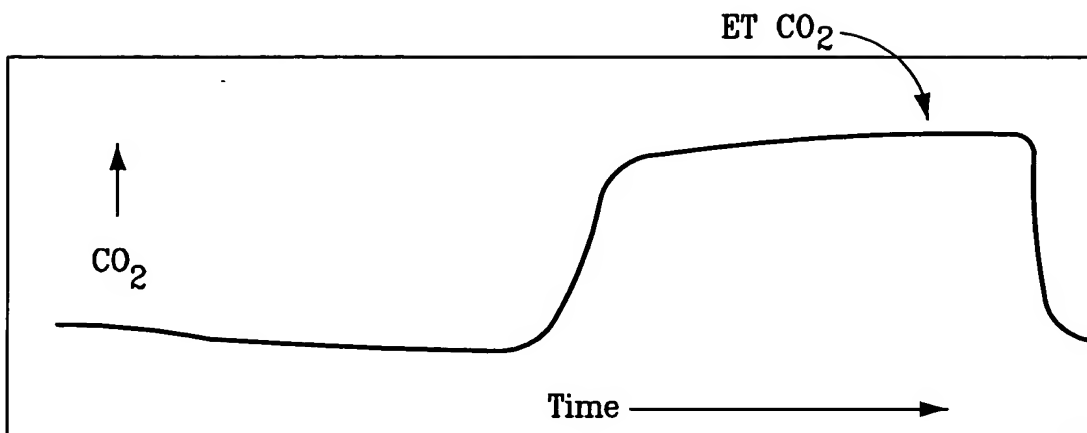
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FIG. 9



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FIG. 10



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FIG. 11

